In the Figures

Replacement sheets are attached for Figures 9 and 13-29 in order to comply with the Examiner's requests.

Figure 9 - question mark after ID number has been removed.

Figures 13-29 - have been labeled "Conventional Art".

Figure 20 - the label "512 bytes" below block 52a has been removed.

Attachment: Thirteen (13) sheets of replacement figures

Docket No.: 299002053600 App No.: 10/010,796 Inventor: Nobuaki TOMORI et al. Title: DATA MANAGEMENT SYSTEM AND DATA MANAGEMENT METHOD Replacement Sheet JUL 2 6 2004 TRADEMAR FIG. 9 Start 219 211 Read data size Read ID number 213 220 212 Read link No Inform of ID ID number information match? number error 221 Yes Proceed to 215 214 next data Immediatelystorage address Inform of No previous data site leading storage information is site error FFFFh? 222 223 Link Yes 216 Inform of link No information information error match? Read state information Yes 218 217 Read data No Inform of state DATA VALID? information error 225 Yes Reading of data having specified size is No completed? Yes 226 227 Last data Inform of last No site information storage site error is FFFFh? Yes

End



Docket No.: 299002053600

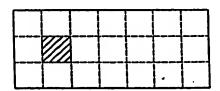
Inventor: Nobuaki TOMORI et al.

Title: DATA MANAGEMENT SYSTEM AND DATA

MANAGEMENT METHOD

Replacement Sheet

FIG.13



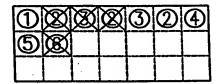
CONVENTIONAL ART

FIG. 14

Address	No.	Flag				
Data						

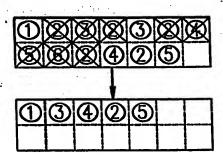
CONVENTIONAL ART

FIG. 15



CONVENTIONAL ART

FIG. 16



App No.: 10/010,796 Inventor: Nobuaki TOMORI et al.

Replacement Sheet

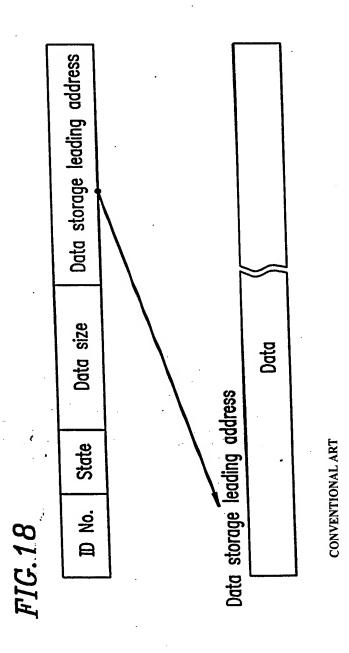
Docket No.: 299002053600

Title: DATA MANAGEMENT SYSTEM AND DATA MANAGEMENT METHOD Replacem

Data Data size ટું

Docket No.: 299002053600

App No.: 10/010,796 Docket No.: 299002053
Inventor: Nobuaki TOMORI et al.
Title: DATA MANAGEMENT SYSTEM AND DATA
MANAGEMENT METHOD Replacement Sheet



App No.: 10/010,796 Docket No.: 2 Inventor: Nobuaki TOMORI et al.
Title: DATA MANAGEMENT SYSTEM AND DATA

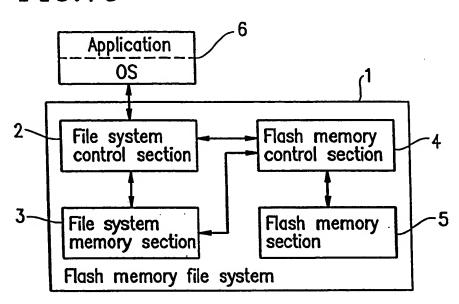
MANAGEMENT METHOD

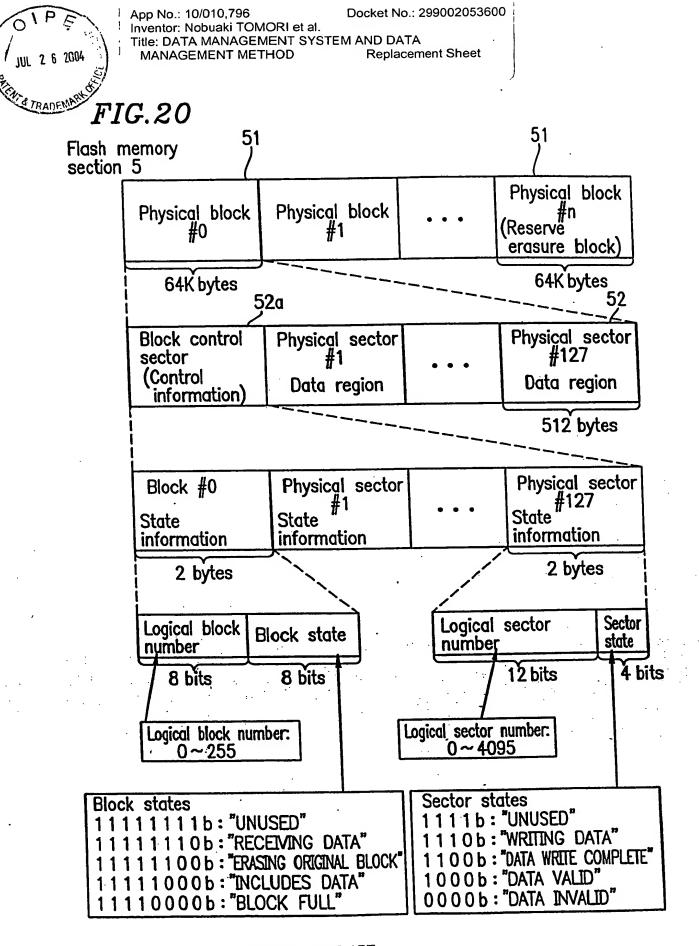
Replacement Sheet

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FIG.19





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FIG.21

Block information table 10

CONVENTIONAL ART

Physical block number (PBN)	Logical block number (LBN)	Block state
0	0	INCLUDES DATA
1	1	BLOCK FULL
•	:	:

FIG.22

Sector information table 11

CONVENTIONAL ART

Physical block number (PBN)	Physical sector number (PSN)	Logical sector number (LSN)	Sector state
0	1	100	DATA VALID
0	2	10	DATA INVALID
	•	•	:

FIG.23

Sector information table 12

Physical block number (PBN)	Number of "UNUSED" sectors	Number of "DATA VALID" sectors	Number of "DATA INVALID" sectors
· 0	100	20	7
1	0	50 ⁻	77
: • •	:	•	:

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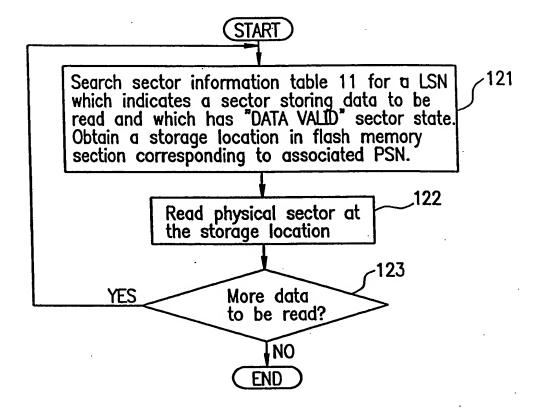
MANAGEMENT METHOD

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FIG.24



JUL 2 6 2004 80

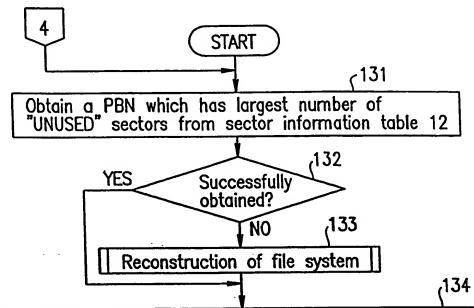
App No.: 10/010,796 Docket No.: 299002053600

Inventor: Nobuaki TOMORI et al.

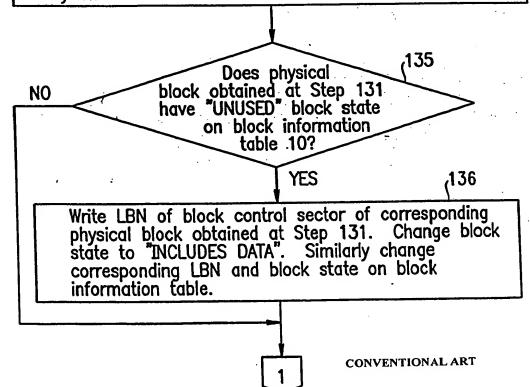
Title: DATA MANAGEMENT SYSTEM AND DATA

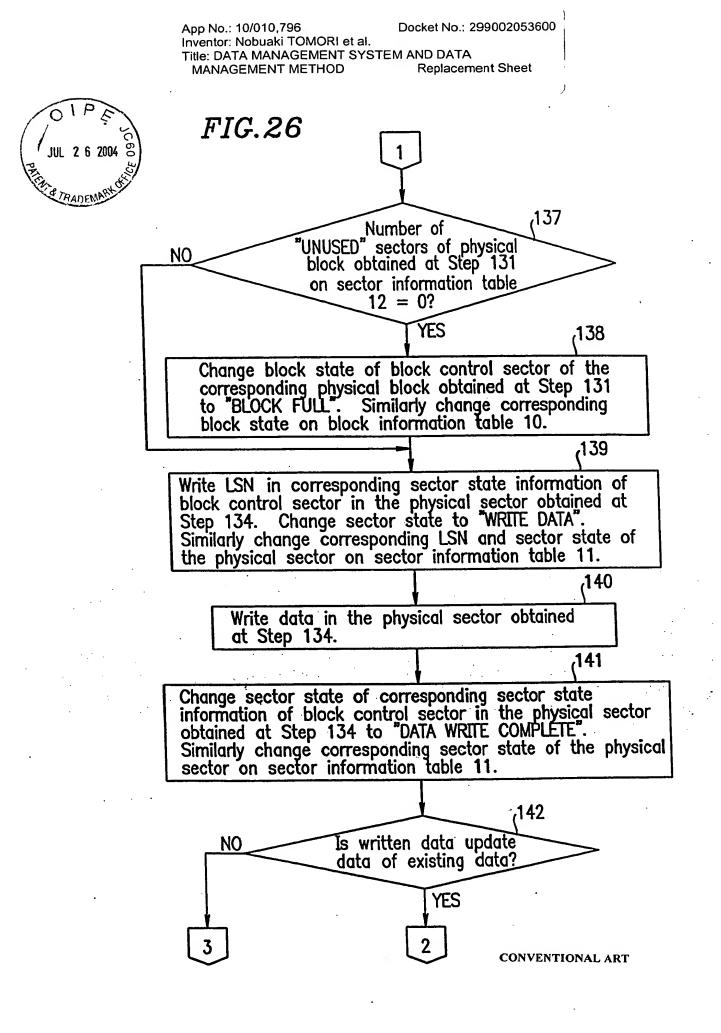
MANAGEMENT METHOD Replacement Sheet

FIG.25



From sector information table 11, obtain a PSN which has the "UNUSED" sector state among PSN that correspond to the PBN obtained at Step 131. Decrement number of "UNUSED" sectors of corresponding PBN on sector information table 12 by one. Increment number of "DATA VALID" sectors of corresponding PBN on sector information table 12 by one.





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FIG.27

(143

From sector information table 11, obtain PBN and PSN of a sector which has same LSN as LSN of the sector for which writing was performed at Step 140 but for which writing was not performed at Step 140.

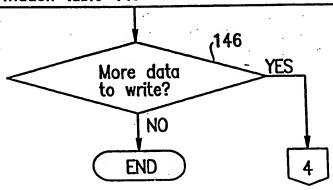
2

144

Change sector state of the corresponding sector state information of block control sector in physical sector obtained at Step 143 to "DATA INVALID". Similarly change sector state of the corresponding physical sector on sector information table 11. Decrement number of "DATA VALID" sectors of corresponding PBN on sector information table 12 by 1 and increment number of "DATA INVALID" sectors of corresponding PBN on sector information table 12 by 1.

(145

Change sector state of corresponding sector state information of block control sector in the physical sector obtained at Step 134 to "DATA INVALID". Similarly change corresponding sector state of the physical sector on sector information table 11.



App No.: 10/010,796 Docket No.: 299002053600 Inventor: Nobuaki TOMORI et al. Title: DATA MANAGEMENT SYSTEM AND DATA MANAGEMENT METHOD Replacement Sheet FIG.28 **START** 151 From sector information table 12, obtain PBN which has most DATA INVALID sectors. From block information table 10, obtain LBN which corresponds to the PBN. 152 Change LBN of block state information in block control sector of reserve erasure block to the LBN obtained at Step 151. Change block state to "RECEIVING DATA". Similarly change LBN and block state of the reserve erasure block on block information table 10. 153 Search sector information table 11 for a next sector having the "DATA VALID" sector state in the PBN obtained at Step 151.

154

NO Is sector state data valid"? YES

Copy corresponding sector state information of block control' sector in the physical block obtained at Step 151 and data of the corresponding physical sector, to sector state information of the same PSN in block control sector of reserve erasure block. Copy data in the physical sector to the sector having same PSN. Copy corresponding LSN and sector state in the physical block obtained from sector state table 11 at Step 151 to the corresponding information having same PSN in the reserve erasure block.

155

156 More sectors YES to the processed? CONVENTIONAL ART JUL 2 6 2004 80

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FIG.29

